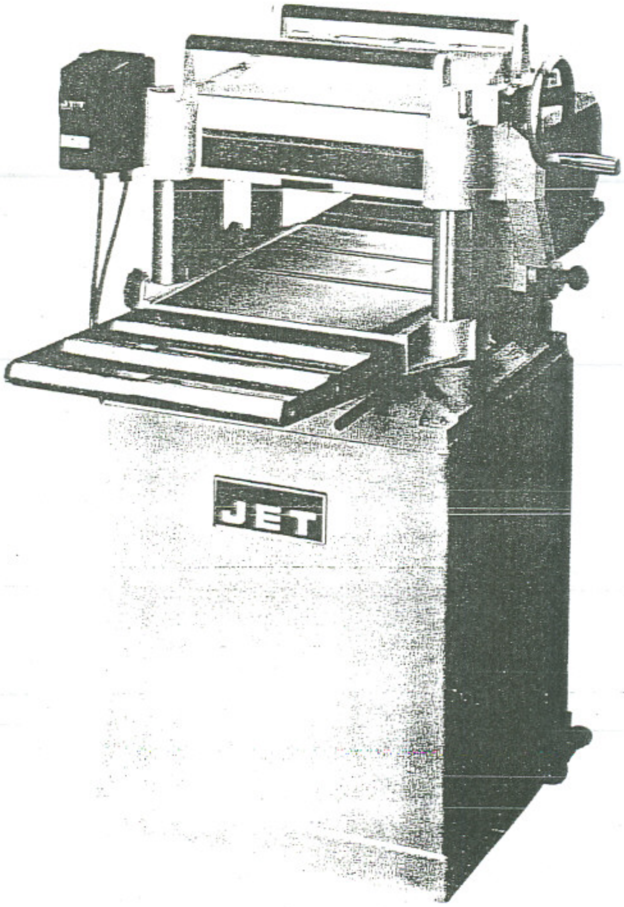
JET
EQUIPMENT & TOOLS

OPERATOR'S MANUAL
JWP-15CS Planer



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⚠ WARNING

- **Read and understand the entire instruction manual before attempting assembly or operation.**
- **This planer is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a planer, do not use until proper training and knowledge has been obtained.**
- **KEEP GUARDS IN PLACE** and in working order.
- **REMOVE ADJUSTING KEYS AND WRENCHES.** Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
- **DON'T USE IN A DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keeps work area well lighted.
- **KEEP CHILDREN AWAY.** All visitors should be kept a safe distance from the work area.
- **MAKE THE WORKSHOP KIDPROOF** with padlocks, master swatches, or by removing starter keys.
- **DON'T FORCE THE MACHINE.** It will do the job better and safer at the rate for which it was designed.
- **USE THE RIGHT MACHINE.** Don't force a machine or attachment to do a job for which it was not designed.
- **USE THE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your machine will draw. An undersized cord will cause a drop in the line voltage resulting in power loss and overheating. For runs up to 25', use a 14 AWG gauge or heavier cord. For runs up to 50', use a 12 AWG or heavier cord. **Runs over 50' are not recommended.** Remember, the smaller the gauge number, the heavier the cord.
- **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry, which may get caught, in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
- **ALWAYS USE SAFETY GLASSES.** Also use face or dust masks if the cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
- **DON'T OVERREACH.** Keep proper footing and balance at all times.
- **ALWAYS DISCONNECT THE MACHINE FROM THE POWER SOURCE BEFORE SERVICING.**
- **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure the switch is in the off position before plugging in.
- **NEVER STAND ON A MACHINE.** Serious injury could occur if the machine tipped of if the blade is unintentionally contacted.
- **CHECK DAMAGED PARTS.** Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function - check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- **DIRECTION OF FEED.** Feed work into the cutterhead against the direction of rotation of the cutterhead only.
- **NEVER LEAVE THE MACHINE RUNNING UNATTENDED. TURN POWER OFF.** Don't leave the machine until it comes to a complete stop.
- **NEVER PLANE A BOARD** less than 8" in length or ½" thick.

30/35 amp. Breaker

Specifications:

JWP-15CS

Stock Number	708529
Maximum Cutting Width	15"
Maximum Thickness	6"
Minimum Thickness	½"
Full Width Depth of Cut	1/8"
Minimum Planing Length	8"
Number of Knives	3
Cutterhead Speed (RPM)	4,500
Cuts per Minute	13,500
Cutterhead Diameter	2-13/16"
Blade Size	15"Lx1"Wx1/8"T
Feed Rate (FPM)	16 & 20
Dust Chute Diameter	4"
Overall Dimensions	28.4"Wx41.4"Hx47.85"L
Motor (TEFC)	3HP, 1Ph
	230V only
Net Weight (approx.)	501 lbs.
Shipping Weight (approx.)	536 lbs.

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The specifications in this manual are given as general information and are not binding. JET Equipment and Tools reserves the right to effect, at any time and without prior notice, changes or alterations to parts, fittings, and accessory equipment deemed necessary for any reason whatsoever.

4. To prevent rust, apply paste wax to the table, and columns surface.

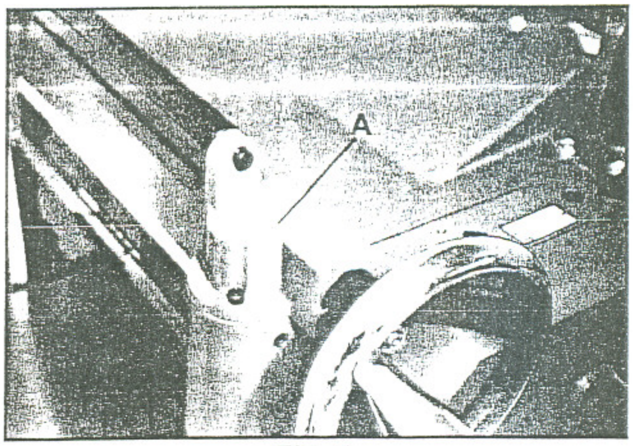


Fig. 1

Roller Assembly

1. Locate hardware bag containing 12 M6x20 hex socket cap bolts, (one nut, one washer, and one direction-indicating sticker used for attaching handwheel.)

2. Attach worm gear box (A, Fig. 1) to the top, right front corner of the machine with three M6x20 hex socket cap screws.

3. Attach roller stand (A, Fig. 2) to the top right rear of the machine with three M6x20 hex socket cap screws.

4. Slide end of roller (B, Fig. 2) into worm gear box, slide the other end of the roller into another roller stand (C, Fig. 2), and attach the roller stand to the top left front of the machine with three M6x20 hex socket cap screws.

5. Slide second roller (D, Fig. 2) into the roller stand. Slide remaining roller stand (E, Fig. 2) onto the roller, and attach the roller stand to the top left rear of the machine with three M6x20 hex socket cap screws.

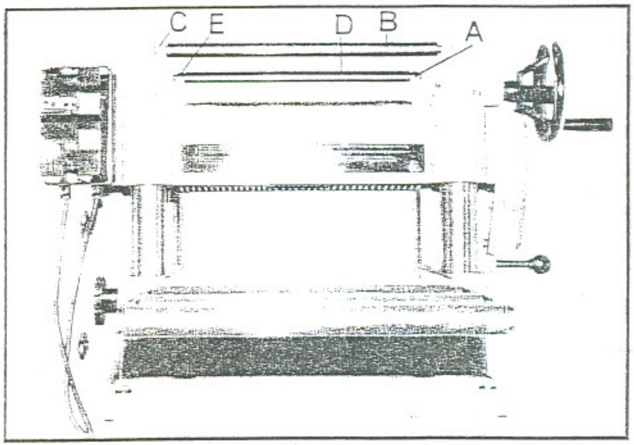


Fig. 2

Table Extension Roller Assembly

1. Locate two boxes containing the table extension roller assemblies. Also find bag containing six M8 x 12 set screws, six M8 x 20 hex cap bolts, and six M8 washers.

2. Thread six set screws (A, Fig. 3) into the table extension rollers so that they are flush with the surface that faces the machine.

3. Attach table extension rollers to the planer table using six M8 x 20 hex cap bolts (B, Fig. 3) and six M8 flat washers.

4. Place a straight edge through the planer so that it lies across both table and rollers. See Fig. 4.

5. Using the hex cap bolts (A, Fig. 4) and set screws (B, Fig. 4), adjust each table extension

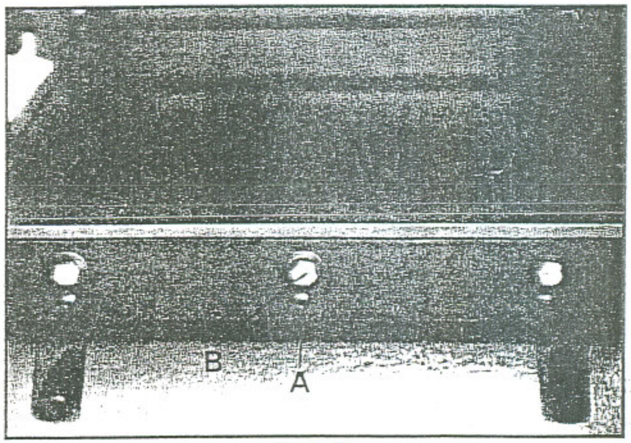
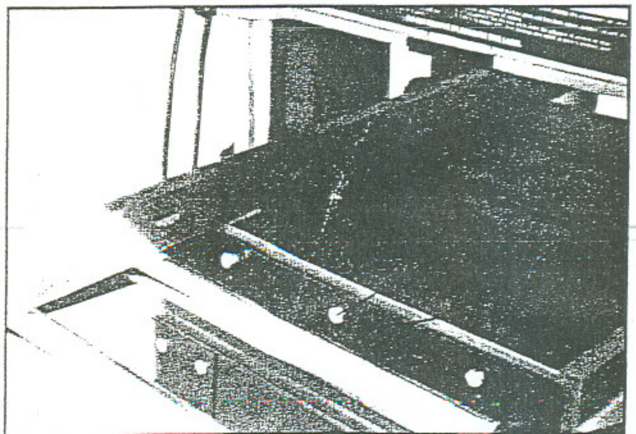


Fig. 3



roller. The straight edge should rest evenly across the table and rollers.

Electrical Switch Assembly

1. Remove two M6 x 12 (A, Fig. 5) hex socket cap screws from the left side of the planer.

2. Attach the switch box assembly (B, Fig. 5) to the side of the planer with two M6 x 12 hex socket cap screws through the switch plate (already attached to the switch box).

Dust Chute Assembly

1. Attach the dust chute to the cover using three hex cap bolts, and three washers (A, Fig. 6). Attach the dust chute to the head casting with three hex socket cap screws, and three lock washers (B, Fig. 6).

Knife Setting Gauge

1. Slide gauges onto both ends of the gauge bar and insert with four e-rings.

Attaching Handwheel

1. Peel off paper backing on the direction indicator and press firmly onto the center of the handwheel hub.

2. Tap the key stock into the key slot on the worm gear shaft.

3. Slide handwheel (A. Fig. 7) onto shaft. Make sure notch in handwheel lines up with and engages key stock.

4. Fasten handwheel to the shaft with one M10 washer and one M10 hex nut (B, Fig. 7).

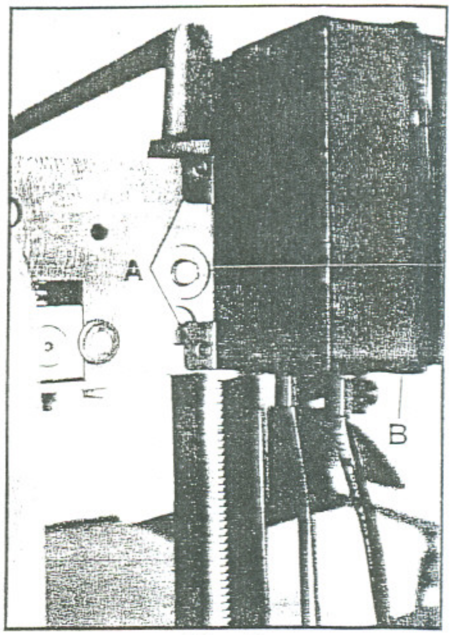


Fig. 5

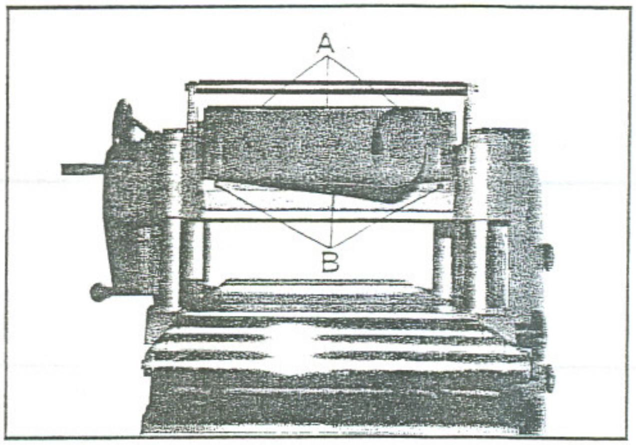


Fig. 6

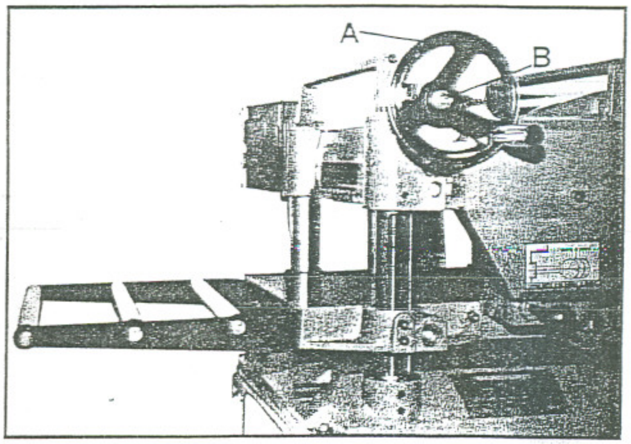


Fig. 7

Electrical Connections

The JWP-15CS planer is rated at 230V. This machine is intended for use on a circuit with an outlet that looks like the one illustrated in Fig. 8. . The machine must be hard wired to the electrical circuit or connected to a plug with a grounding prong that looks like the prong illustrated in Fig. 8. Make sure the tool is connected to an outlet having the same configuration as the plug. No adapter is available or should be used with this machine. If the machine must be reconnected for use on a different type of electrical circuit, the reconnection must be made by qualified service personnel; and after reconnection, the tool must comply with all local codes and ordinances.

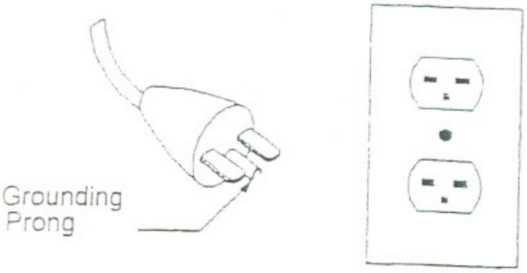


Fig. 8

> ⚠ WARNING!
> **All electrical connections must be done by qualified service personnel!**
> **Failure to comply may result in serious injury!**

Adjustments

> ⚠ WARNING!
> **All adjustmwnts must be made with the machine disconnected from the power source!**
> **Failure to comply may result in serious injury!**

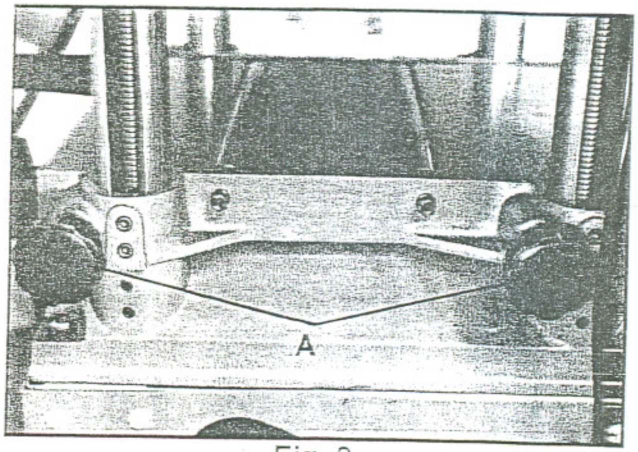


Fig. 9

Depth of Cut Adjustment

Depth of cut is controlled by raising or lowering the table:

1. Loosen lock knobs (A, Fig. 9).
2. Raise or lower the table to the desired position.
3. Tighten lock knobs before operating machine.

Maximum full width depth of cut is 1/8". A limiter (A, Fig. 10) is provided to restrict the depth of cut on full width planing from 3/16" to 1/8".

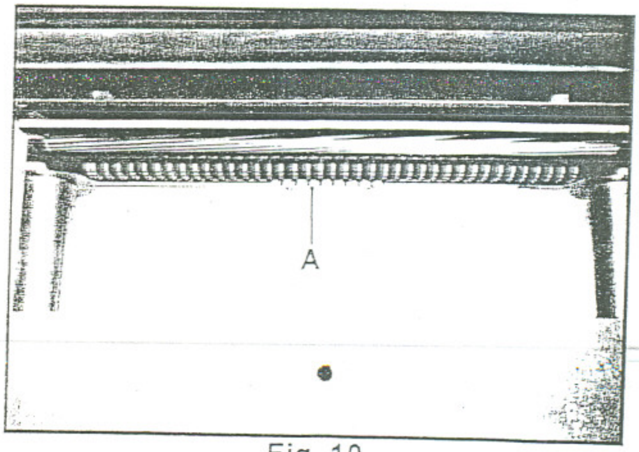


Fig. 10

Anti-Kickback Fingers

⚠ WARNING
Never stand directly in front of or behind the planer during operation! Always stand to one side or the other to avoid injury should kickback occur!
Failure to comply may cause serious injury!

Anti-kickback fingers (A, Fig. 11) are provided to prevent the occurrence of kickback. These fingers operate by gravity and must be inspected before each day's use for pitch or gum buildup. The fingers must operate freely and move independently for correct operation.

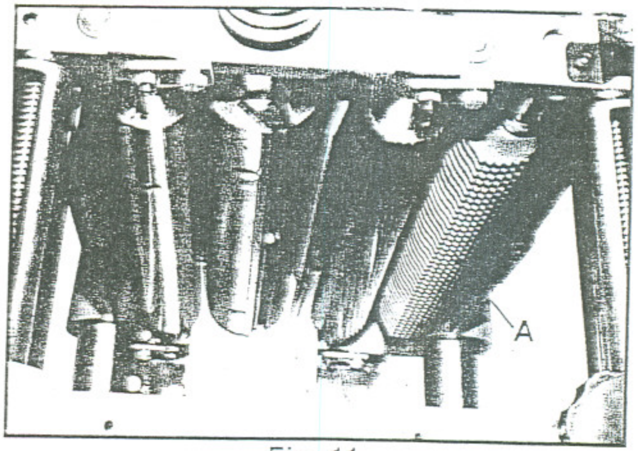


Fig. 11

Feed Rate Adjustment

The JWP-15CS is equipped with selectable feed speed rollers that feed stock at 16 and 20 feet per minute. Always change speeds while the planer is running.

To adjust speed:

1. Push speed control lever (A, Fig. 12) in fully for 20 feet per minute.
2. Pull speed control lever half way out to disengage feed rollers.
3. Pull out speed control lever fully for 16 feet per minute.

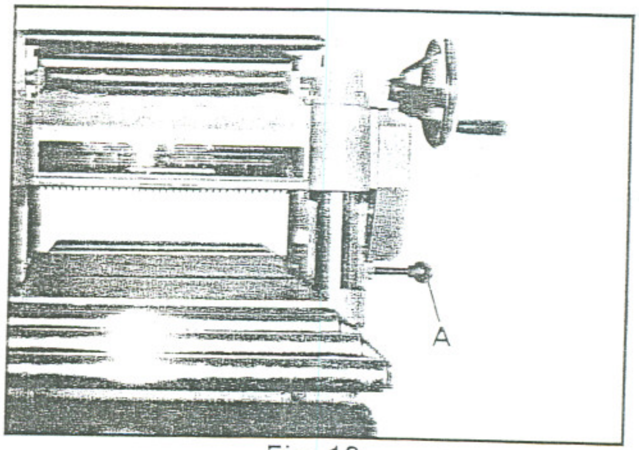


Fig. 12

Adjusting Belt Tension

1. **Disconnect the machine from the power source.**
2. Remove the stand cover on the rear of the stand.
3. From the inside of the stand, loosen the nut. (A, Fig. 13).
4. Raise or lower the motor plate (B, Fig. 13) by turning the nut (C, Fig. 13) until the correct tension is achieved. Correct tension has been obtained when light finger pressure causes

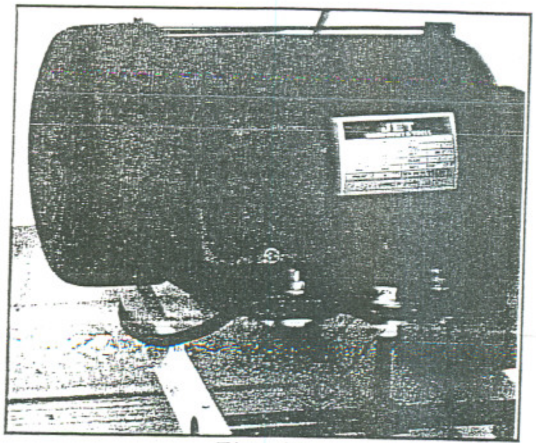


Fig. 13

approximately 1/4" deflection in the center span of the belts.

5. Tighten the nut (A, Fig. 13) to hold the adjustment.

6. Replace the stand cover.

Knife Adjustment

⚠ WARNING

Use extreme caution when placing hands near the cutting knives; they are very sharp and can cause severe cuts!
Failure to comply may cause serious injury!

CAUTION

Any adjustment or replacement of knives must be done to all three knives at the same time!
Failure to comply may result in an out of balance cutterhead which may lead to bearing failure!

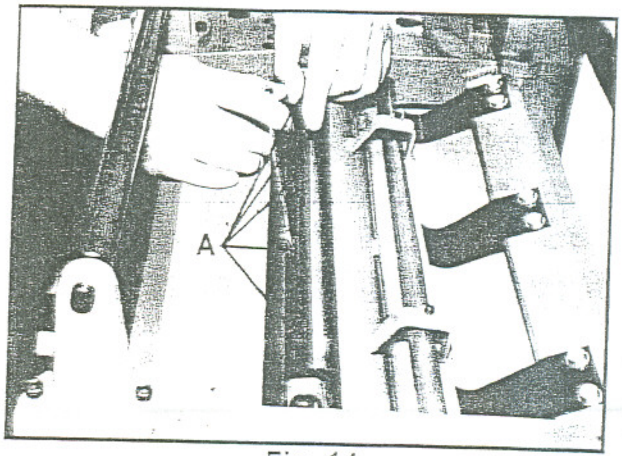


Fig. 14

1. **Disconnect the machine from the power source.**

2. Slightly loosen five bolts (A, Fig. 14).

3. Carefully place knife setting gauge (B, Fig. 14) on the cutterhead as shown in (Fig. 14). When properly adjusted, the knife-edge should just contact the bottom of the center protrusion.

4. To raise the knife, insert the hex wrench into the jacking screw (Fig. 15) on either end of the cutterhead and turn counter-clockwise.

5. To lower the knife, turn both jacking screws clockwise. With a block of scrap wood (to protect fingers and the knife), push knife into cutterhead farther than it needs to be. Final setting should always be made by raising the knife rather than lowering it.

6. Tighten all bolts (A, Fig. 14) firmly.

7. Repeat steps 2-6 for the other knives.

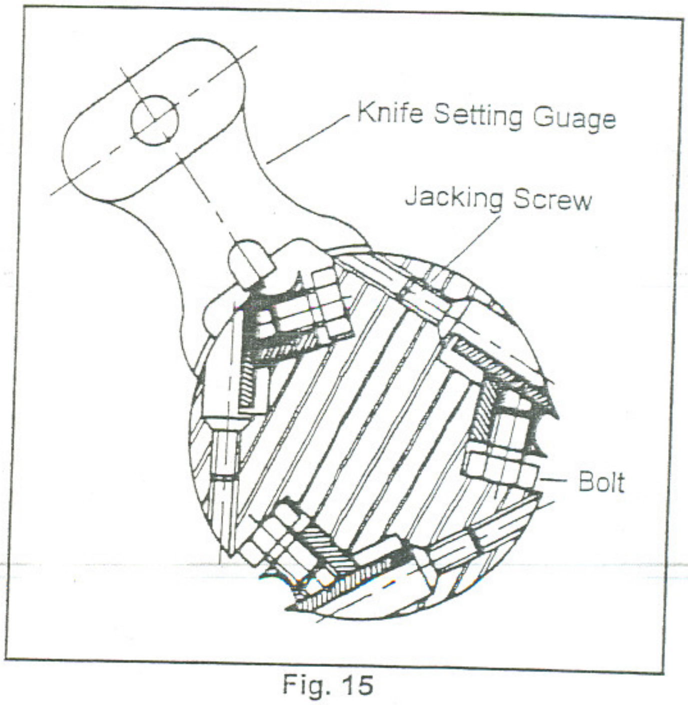


Fig. 15

Knife Removal and Installation

⚠ WARNING

All knife locking screws must be firmly seated before turning on the planer!
Failure to comply may cause knife ejection resulting in serious injury!

1. **Disconnect the machine from the power source.**
2. To remove the knife, loosen five bolts (A, Fig. 16).
3. Carefully remove the blade from the cutterhead by lifting straight out. A piece of scrap wood will aid removal.
4. Insert the new knife into the cutterhead.
5. Check for proper knife height using the knife setting gauge.
6. Tighten the five bolts (A, Fig. 16).

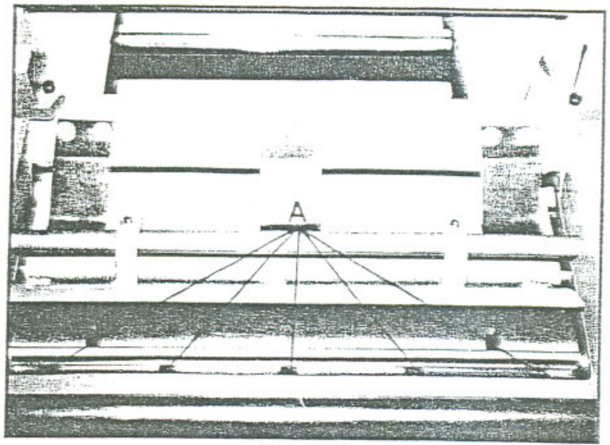


Fig. 16

Adjusting Feed Rollers Tension Spring

The infeed and outfeed rollers are under spring tension sufficient to feed the stock uniformly through the planer without slipping. If spring tension is too loose, stock will not feed uniformly. If spring tension is too tight, it will cause damage to the stock. Tension should be adjusted equally at both ends of the roller.

1. To adjust infeed roller spring tension, turn screw (A, Fig. 17) clockwise to increase the tension and counter-clockwise to decrease the tension. Adjust equally on both ends of the roller.
2. To adjust outfeed roller spring tension, turn screw (B, Fig. 17) clockwise to increase tension and counter-clockwise to decrease tension. Adjust equally on both sides.

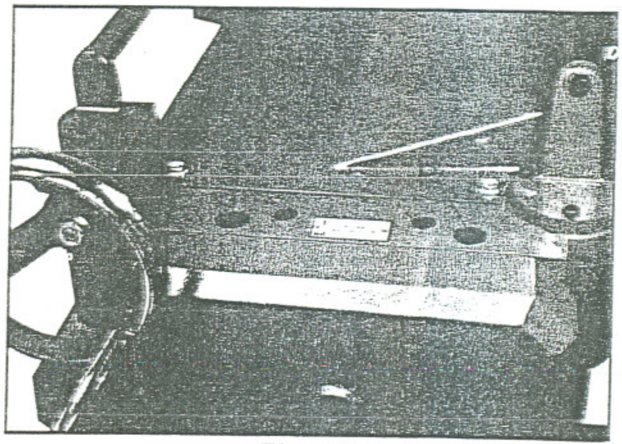


Fig. 17

Adjusting the Outfeed and Infeed Rollers

The outfeed roller, the infeed roller, the chipbreaker, and the cutterhead all use a gauge block of hardwood for adjustment. This gauge can be fashioned by following the dimensions given in (Figure 18). To check and adjust the outfeed roller:

1. **Disconnect the machine from the power source.**
2. Make sure the knives are adjusted properly. (See section "Knife Adjustment.")
3. Place the gauge block (A, Fig. 19) on the table directly underneath the cutterhead (B, Fig. 19).
4. Place a .02" feeler gauge (C, Fig. 19) on top of the gauge block and raise the table until the feeler gauge just touches the knife when the knife is at it's lowest point. Do not move the table any further until the roller has been adjusted.
5. Move the gauge block (A, Fig. 20) under the end of the outfeed roller. The bottom of the outfeed roller (B, Fig. 20) should just touch the top of the gauge block.
6. If an adjustment is necessary, loosen lock nut (C, Fig. 20), turn set screw (D, Fig. 20) until the feed roller just touches the gauge block.
7. Tighten lock nut (C, Fig. 20).
8. Check and adjust the opposite end of the outfeed roller by following steps 1-8.
9. Adjust the infeed roller in the same manner.

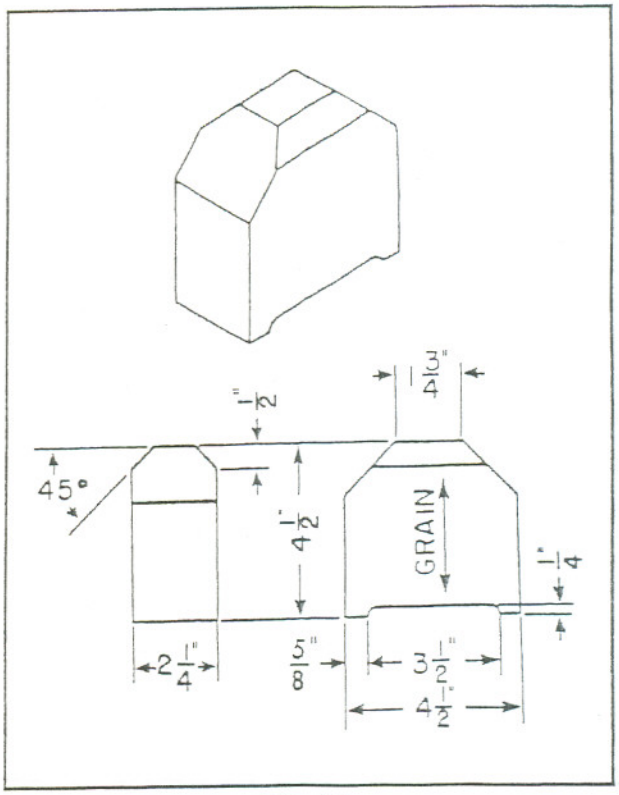


Fig. 18

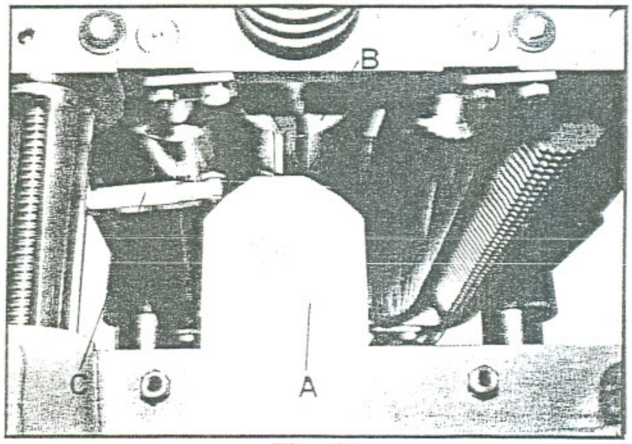


Fig. 19

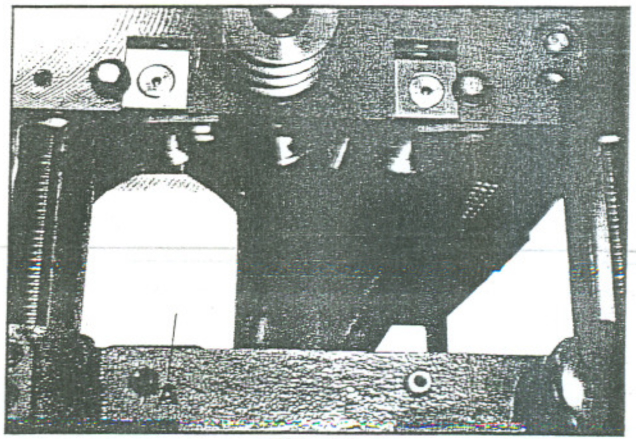


Fig. 20

Adjusting the Chipbreaker

The chipbreaker is located on top of the planer and extends down around the front of the cutterhead. The chipbreaker raises as stock is fed through and "breaks" or "curls" the chips. The bottom of the chipbreaker must be parallel to the knives and must be .02" below the cutting circle. To adjust:

1. **Disconnect the machine from the power source.**
2. Make sure the knives are properly adjusted. (See section entitled "Knife Adjustment.")
3. Place the gauge block (A, Fig. 19) on the table directly underneath the cutterhead.
4. Place a .02" feeler gauge (C, Fig. 19) on top of the gauge block and raise or lower the table until the knife just touches the feeler gauge when the knife is at it's lowest point. Do not move the table until the chipbreaker has been adjusted.
5. Move the gauge block (A, Fig. 21) underneath the chipbreaker (B, Fig. 21). The bottom of the chipbreaker should just touch the top of the gauge block.
6. If an adjustment is necessary. Remove the top cover, loosen the nut (A, Fig. 22) and turn the set screw (B, Fig. 22) until the bottom of the chipbreaker just touches the gauge block.
7. Tighten nut (A, Fig. 22).
8. Check opposite end of chipbreaker in the same manner.

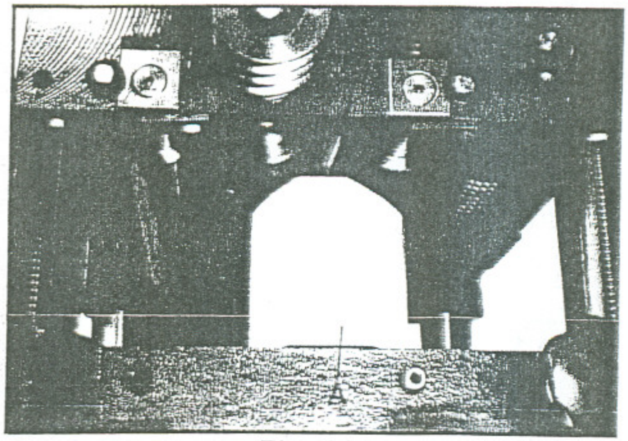


Fig. 21

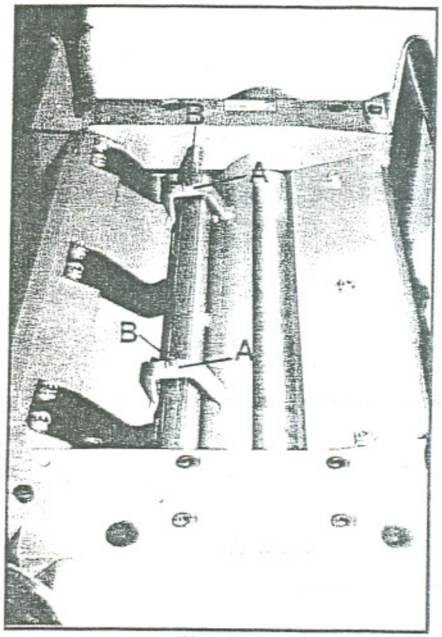


Fig. 22

Adjusting Table Rollers

The JWP-15CS has two table rollers, which aid in feeding the stock by reducing friction and turn as the stock is fed through the planer. It is not possible to give the exact dimensions on the proper height setting of the table rollers because each type of wood behaves differently. As a general rule, however, when planing rough stock, the table rollers should be set high and when planing smooth stock the table rollers should be set low. Maximum height should be .005".

The table rollers are set for average planing and parallel to the table surface. To adjust the table rollers higher or lower:

1. **Disconnect the machine from the power source.**
2. Lay a straight edge (A, Fig. 23) on the table rollers.
3. Loosen set screws (A, Fig. 24).
4. Raise or lower the rollers by turning eccentric bolts (B, Fig. 24). Rollers must be adjusted on the opposite end of the table in the same manner. Table rollers must always be parallel to the table.

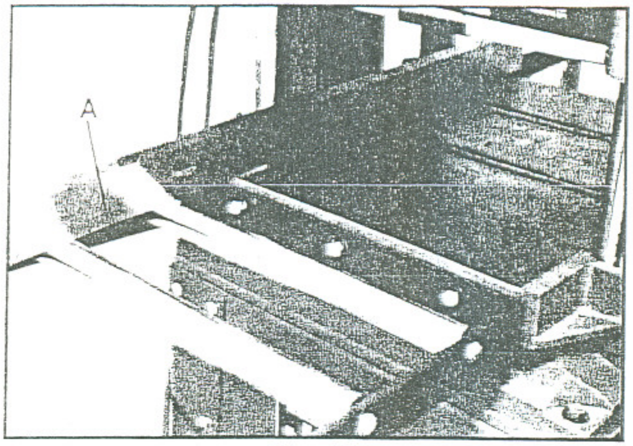


Fig. 23

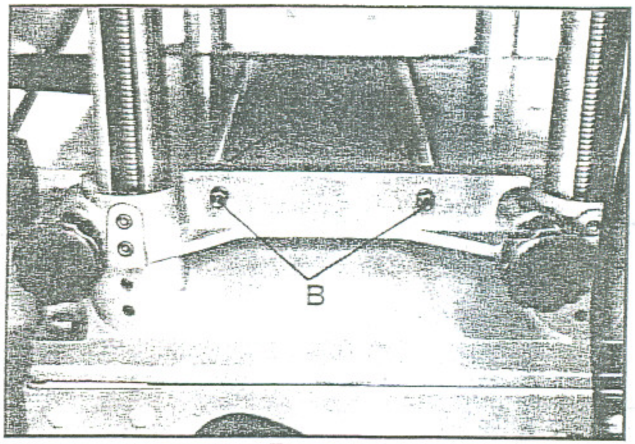


Fig. 24

Adjusting the Cutting Head Parallel to the Table

The table is set parallel to the cutterhead at the factory and no further adjustment should be necessary. However, if the planer is cutting a taper, check first to see that the knives are set properly in the cutterhead. Then, check to see that the table is set parallel to the cutterhead as follows:

1. **Disconnect the machine from the power source.**
2. Place the gauge block (A, Fig. 25) directly under the front edge of the head casting (B, Fig. 25).
3. Raise the table until the head casting just touches the gauge block.
4. Move the gauge block to the opposite side of the table. The distance from the table to the head casting should be the same.

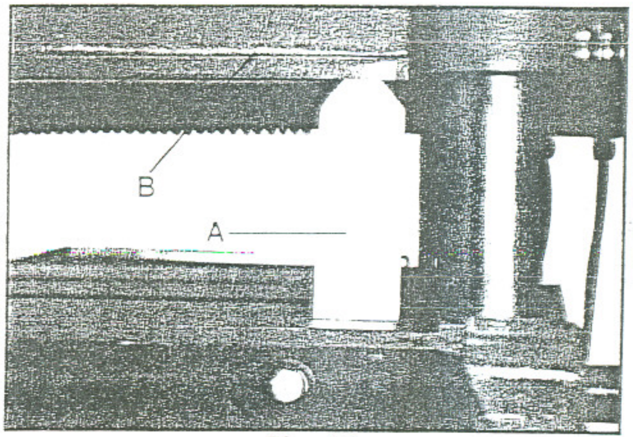


Fig. 25

5. Repeat steps two through four on the outfeed end of the table.

If adjustments need to be made:

1. Remove bolt (A, Fig. 26) and loosen bolt (B, Fig. 26). This allows movement of the idler sprocket assembly (C, Fig. 26) to release tension on the chain.
2. Remove the chain from the sprocket assembly on the end of the table that must be adjusted. For example, the chain has been removed from the sprocket (A, Fig.27).
3. Turn sprocket (A, Fig. 27) by hand to bring corner into adjustment with other three corners. Turning the sprocket clockwise will decrease the distance between the table and the head casting. Counter-clockwise rotation increases the distance. **Note: This adjustment is very sensitive. It should not be necessary to turn the sprocket more than one or two teeth.**
4. After checking with the gauge block to make sure the adjustments are correct, place the chain on the sprocket, retention the idler sprocket, replace bolt (A, Fig. 26), and tighten bolt (B, Fig. 26).

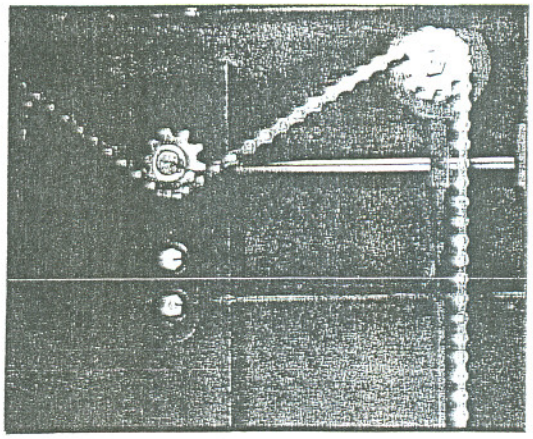


Fig. 26

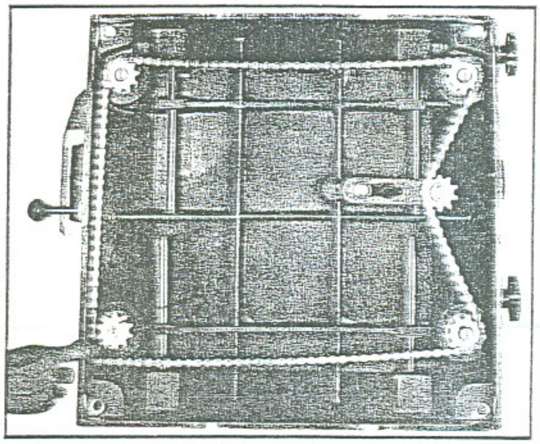


Fig. 27

Lubrication

The gearbox oil should be changed once a year. Drain oil by removing the drain plug (A, Fig. 28). Refill gearbox with 50W-gear oil through the oil fill (B, Fig. 28).

The table and four raising screws should be lubricated as required using a common grease.

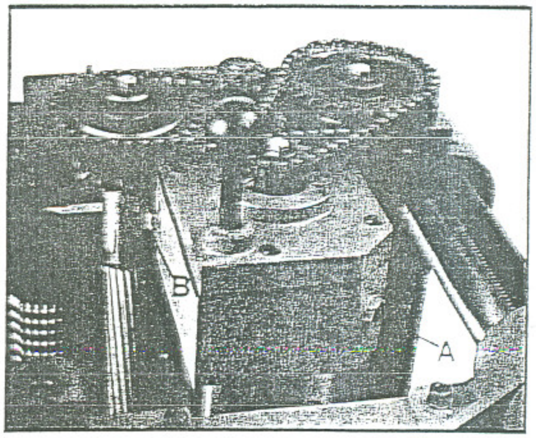
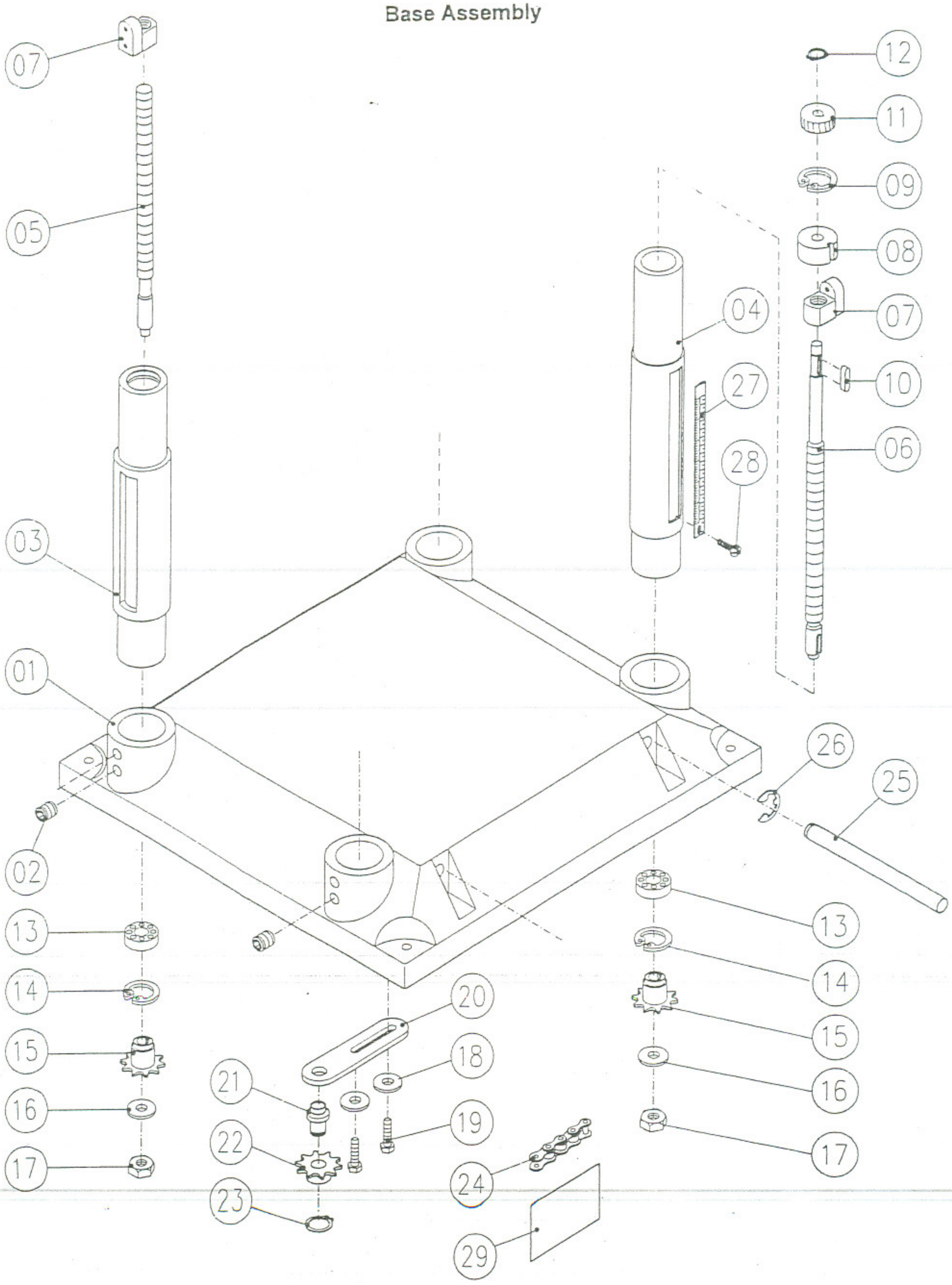


Fig. 28

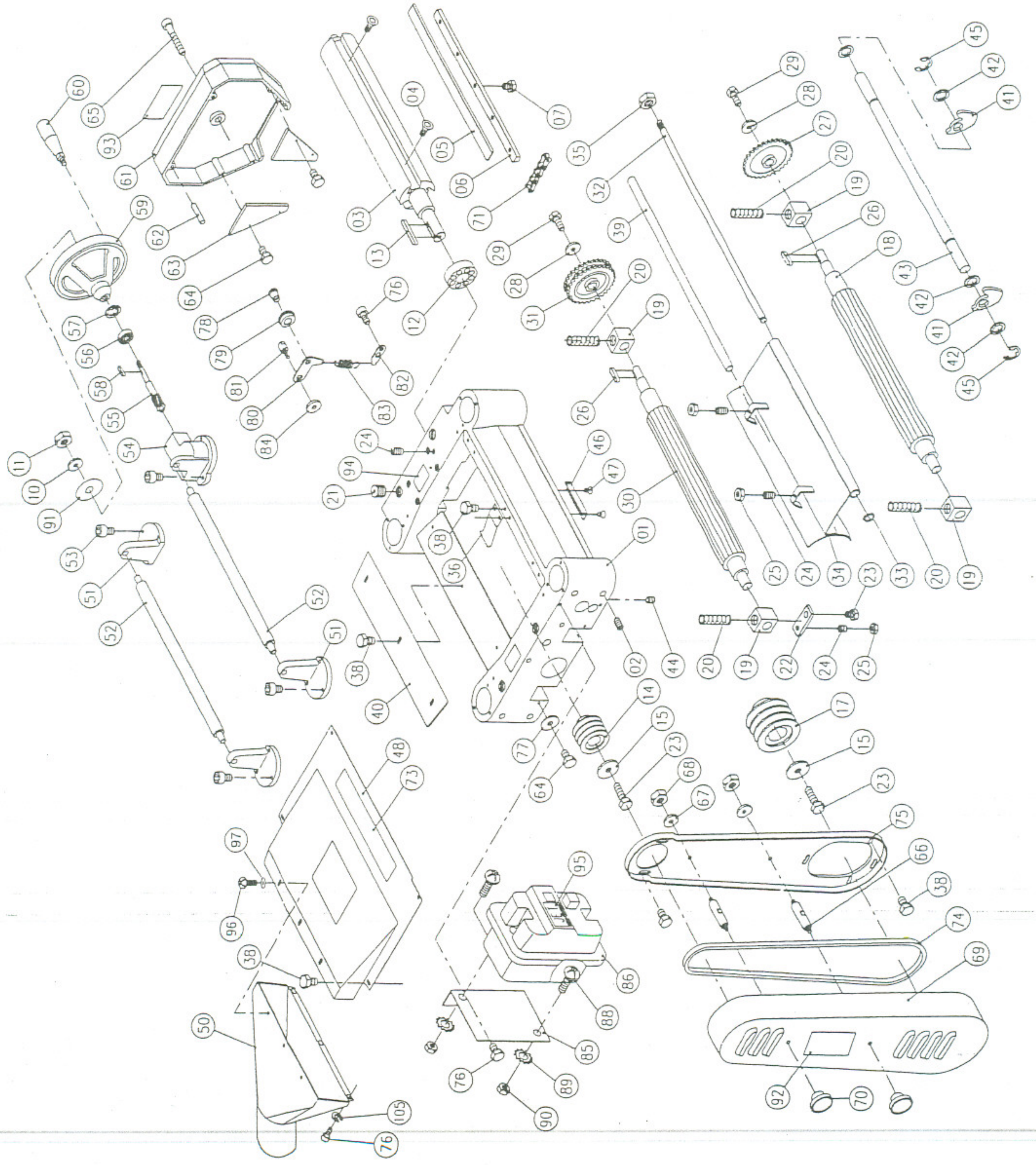
Base Assembly



Parts List for the JWP-15CS Planer

Index No.	Part No.	Description	Size	Qty.
		Base Assembly		
1	JWP15H-201	Base		1
2	TS-152502	Set Screw	M10x1.5-12	8
3	JWP15H-203	Column		3
4	JWP15H-204	Column		1
5	JWP15H-205	Leadscrew		3
6	JWP15H-206	Leadscrew		1
7	JWP15H-207	Nut Fixture		4
8	JWP15H-208	Bushing		1
9	JWP15H-209	Retaining Ring	RTW-38	1
10	JWP15H-210	Key	4x4x10	1
11	JWP15H-211	Gear		1
12	JWP15H-212	Retaining Ring	STW-10	1
13	BB-6202Z	Ball Bearing		4
14	JWP15H-214	Retaining Ring	RTW-35	4
15	JWP15H-216	Sprocket		4
16	TS-0680041	Washer	M10	4
17	TS-1540072	Nut	M10x1.25	4
18	JWP15H-219	Washer	M8	2
19	TS-1481032	Hex Cap Screw	M8x1.25-25	2
20	JWP15H-221	Sprocket Idler		1
21	JWP15H-222	Shaft		1
22	JWP15H-223	Sprocket		1
23	JWP15H-224	Retaining Ring	STW-15	1
24	JWP15H-225	Chain		1
25	JWP15H-226	Lifting Handle		4
26	JWP15H-227	E-Ring	ETW-12	4
27	JWP15H-228	Scale		1
28	TS-153101062	Screw	M3x.5-6	1
29	PJE-B01	I.D. Label		1

Head Assembly



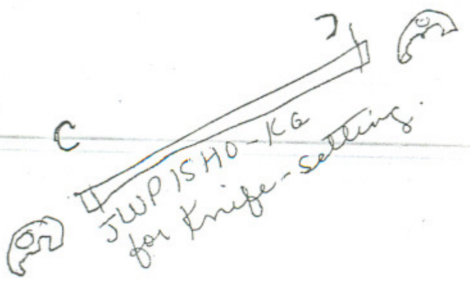
Head Assembly

1	JWP15H-001	Head Casting		1
2	TS-152502	Set Screw	M10x1.5-12	8
3	PG-C01	Cutter Head		1
4	TS-152204	Set Screw	M5x.8-12	6
5	708807	Knife (set)		3
6	JWP15H-006	Knife Bar		3
7	JWP15H-007	Hex Head Screw		15
10	TS-0680041	Washer	M10	1
11	TS-154007	Nut	M10X1.25	1
12	BB-6205ZZ	Ball Bearing		1
13	JWP15H-013	Key	8x7x35	1
14	JWP15H-014	Machine Pulley		1
15	JWP15H-015	Washer		2
17	JWP15H-017	Motor Pulley		1
18	JWP15H-018	Infeed Roller		1
19	JWP208-019	Bushing		4
20	JWP15H-020	Spring		4
21	JWP15H-021	Set Screw	M22x1.5-20	4
22	JWP15H-022	Plate		4
23	TS-1490031	Hex Head Screw	M8x1.25-20	6
24	TS-1523051	Set Screw	M6x1.0-16	7
25	TS-1540041	Nut	M6x1.0	6
26	JWP15H-026	Key	5x5x22	2
27	JWP15H-027	Sprocket		1
28	JWP15H-028	Washer	1/4	2
29	TS-148203	Hex Head Screw	M6x1.0-16	2
30	JWP15H-030	Outfeed Roller		1
31	JWP15H-031	Sprocket		1
32	JWP15H-032	Locking Bolt		1
33	JWP15H-033	Retaining Ring	STW-12	1
34	JWP15H-034	Chipbreaker		1
35	TS-1540081	Nut	M12x1.75	1
36	JWP15H-036	Plate Spring		3
38	TS-1482021	Hex Head Screw	M6X1.0-12	18
39	JWP15H-039	Shaft		1
40	JWP15H-040	Deflector Plate		1
41	JWP15H-041	Anti-Kick Finger		39
42	JWP15H-042	Collar		40
43	JWP15H-043	Shaft		1
44	TS-152403	Set Screw	M8x1.25-12	1
45	JWP15H-045	Retaining Ring	ETW-15	2
46	JWP15H-046	Limiter Plate		1
47	TS-153404101	Flat Head Screw	M5x0.8-12	2
48	JWP15H-048	Upper Cover		1
50	JWP15H-050w)	Collector Hood		1
51	JWP15H-051	Roller Stand		3
52	JWP15H-052	Roller		2
53	TS-1503051	Hex Socket Cap Screw	M6x1.0-20	12
54	JWP15H-054	Worm Gear Box		1
55	JWP15H-055	Worm		1
56	BB-6200Z	Ball Bearing		1

W= White

57	JWP15H-057	Retaining Ring	RTW-30	1
58	JWP15H-058	Key	4x4x10	1
59	JWP15H-059	Hand Wheel		1
60	JWP15H-060	Handle		1
61	JWP15H-061 W	Cover		1
62	JWP15H-062	Spring Pin		2
63	PF-C22	Plate		2
64	TS-153404102	Hex Head Screw	M6x1.0-12	8
65	TS-1504101	Hex Socket Cap Screw	M8x1.25-50	1
66	JWP15H-067	Bolt		2
67	TS-0680031	Washer	5/16	2
68	TS-0561021	Nut	5/16-18	2
69	~~PMA-C26~~	Pulley Cover JWP208-084		1
70	JWP15H-072	Knob		2
71	JWP15H-073	Chain		1
73	PG-C05	Label		1
74	VB-M59	V-Belt	M59	3
75	~~PMA-C25~~	Pulley Guard JWP208-079		1
76	TS-150303	Hex Socket Cap Screw	M6x1.0-12	7
77	PF-C26	Washer		4
78	PA-C56	Stud		1
79	PA-C57	Idle Pulley		1
80	PA-C58	Bracket		1
81	PA-C59	Stud		1
82	PA-C60	Hanger		1
83	PA-C61	Spring		1
84	PA-C62	Washer		1
85	JWP15H-076	Switch Bracket		1
IN-OFF 86	~~JWP15H-077~~ JJ8-[illegible]	Switch 921A		1
88	TS-153303102	Screw	3/16x24-5/8	2
89	JWP15H-079	Star Washer	EOW5	2
90	TS-1540031	Nut	3/16x24	2
91	PF-C27	Direction Indicator		1
92	PA-C67	Label		1
93	PA-G18-1	Label		1
94	PA-C66	Label		1
95	PJE-C04	Label		1
96	SAD-D04A	Hex Head Screw	M5x0.8-12	3
97	TS-0680011	Flat Washer	M5	3
105	5EA-B04	Lock Washer	M6	3
106	JWP15HO-KG	Knife Gauge (Not Shown)		1

* #86 screws for This need Box is J[illegible] cS ID-079C



JWP15HO-KG for Knife-setting.

Table Assembly

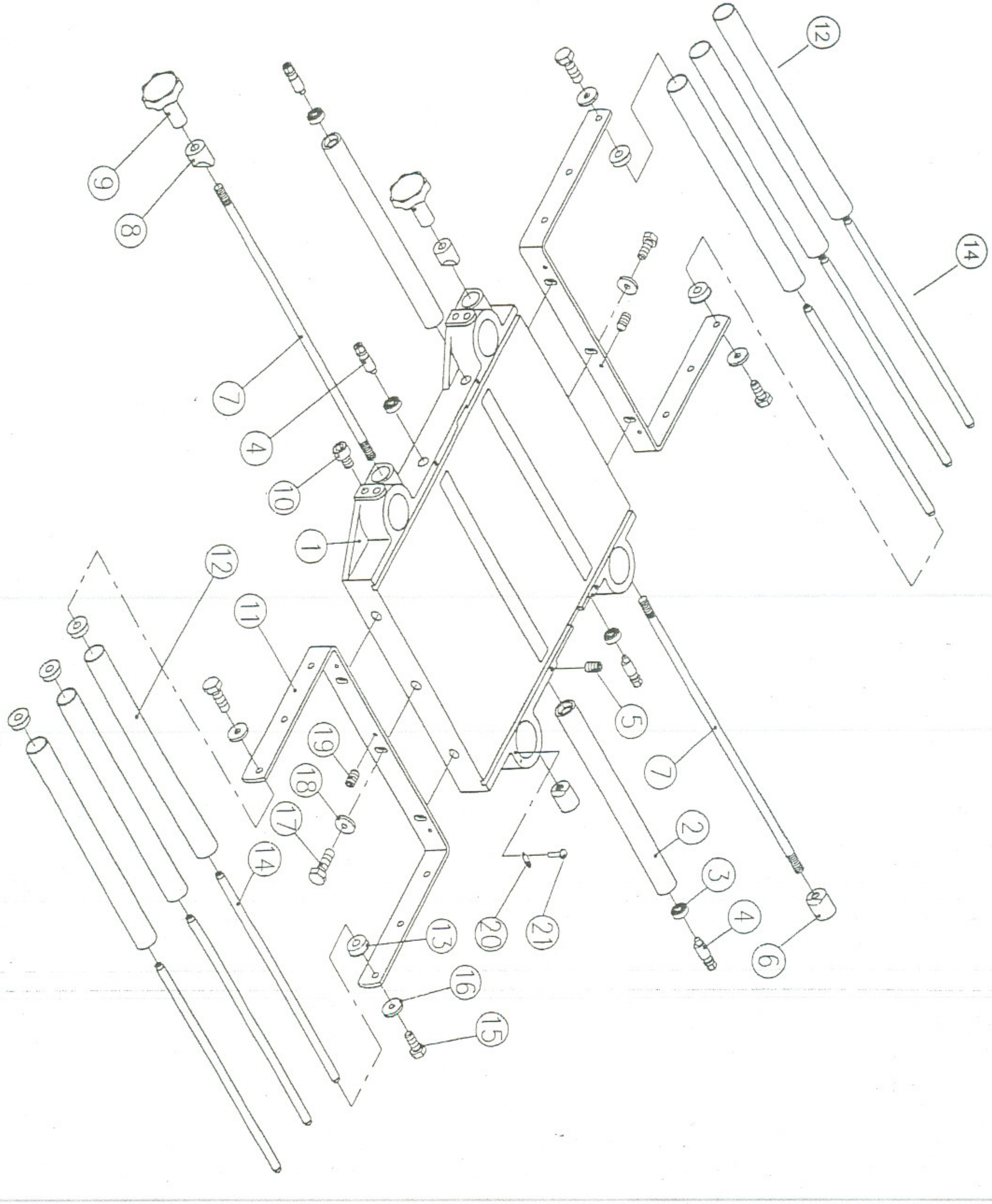
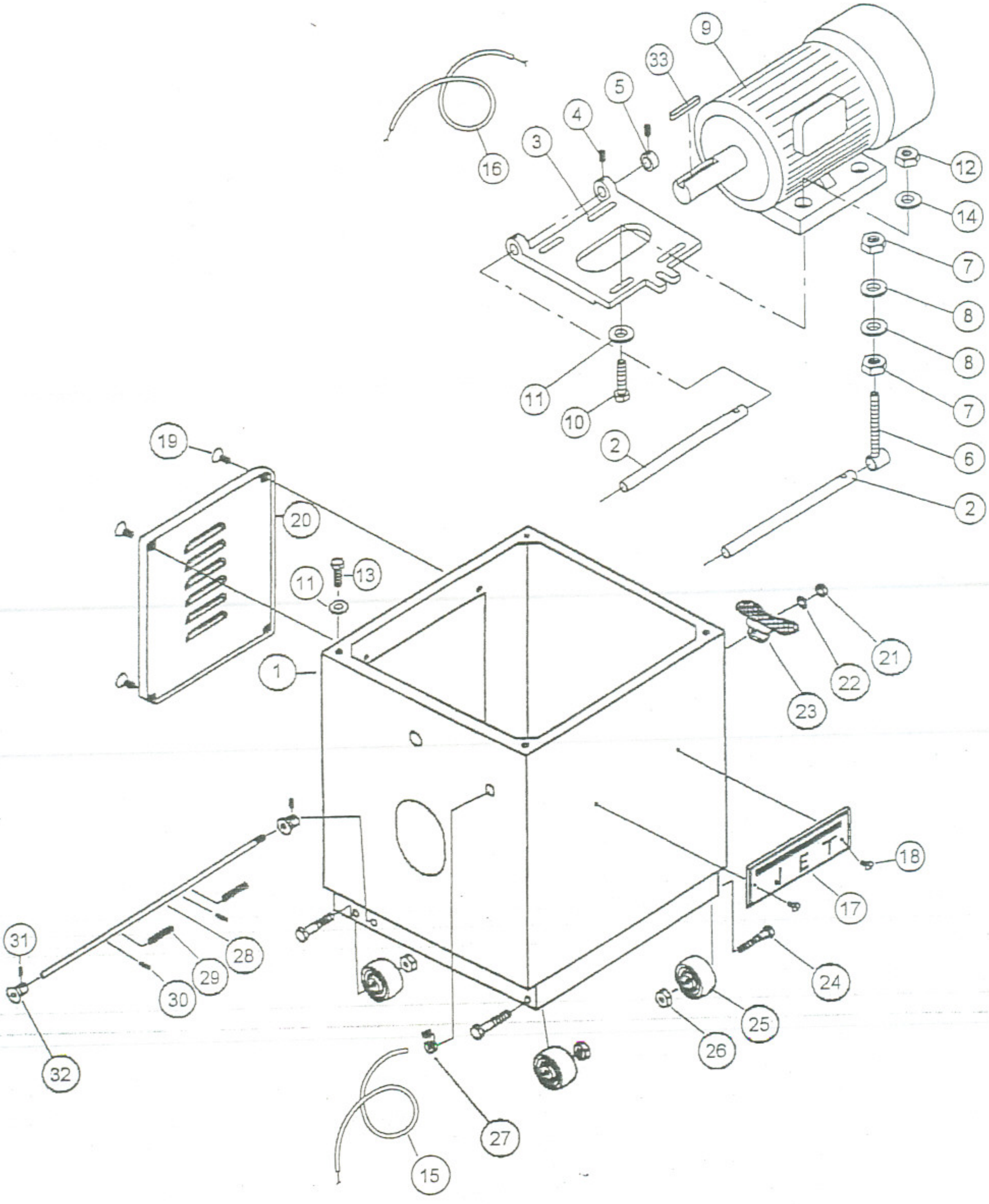


Table Assembly

1	JWP15H-101	Middle Table		1
2	JWP15H-102	Roller		2
3	BB-608Z	Ball Bearing		4
4	JWP15H-104	Eccentric Shaft		4
5	TS-152304	Set Screw	M6x1.0-12	4
6	JWP15H-106	Threaded Lock Bushing		2
7	JWP15H-107	Lock Bolt		2
8	JWP15H-108	Lock Bushing		2
9	JWP15H-109	Knob		2
10	TS-1503051	Hex Socket Cap Screw	M6x1.0-20	8
11	PJ020801	Roller Frame		2
12	JWP15H-112	Roller		6
13	JWP15H-113	Roller Bushing		12
14	JWP15H-114	Shaft		6
15	TS-1482011	Hex Head Bolt	M6x1.0-12	12
16	TS-0680021	Washer	1/4	12
17	TS-1490031	Hex Cap Screw	M8x1.25-20	6
18	TS-1550061	Washer	M8	6
19	TS-1524011	Set Screw	M8x1.25-12	6
20	JWP15H-230	Cut Limit Pointer		1
21	JWP15H-231	Rivet	2x5	2

Stand and Motor Assembly



Stand and Motor Assembly

1	PJN-S01	Base		1
2	JWP15H-404	Support Bar		2
3	JWP15H-406	Motor Bracket		1
4	TS-152301	Set Screw	M6x1.0x6	4
5	JWP15H-408	Collar		1
6	JWP15H-409	Adjusting Bolt		1
7	TS-154007	Nut	M10x1.5	2
8	TS-0680061	Washer	1/2	2
9	JWP15H-412	Motor	3HP	1
10	TS-149005	Hex Cap Bolt	M8x1.25x30	4
11	TS-068003	Washer	M8	12
12	TS-1541031	Hex Nut	M8x1.25	4
13	TS-150408	Hex Cap Bolt	M8x1.25-40	4
14	5EB-A09	Washer	5/16x16x1.5	4
15	JWP15H-418	Power Cable		1
16	PAG-M02	Motor Cable		1
17	PG-M02	Jet Plaque		1
18	5E-A200	Flat Head Screw	M5x0.8xx6	2
19	5EA-E06A	Flat Head Screw	M6x1.0x12	4
20	PJH-S02	Door		1
21	HC041000	Hex Nut	M10x1.5	1
22	HE016200	Flat Washer	M10	1
23	PJN-S02	Foot Brake		1
24	5CA-H16B	Hex Cap Screw	3/8x16x2 1/2	4
25	PJE-S05	Wheel		4
26	5DD-B09	Hex Nut	3/8x16	4
27	5MA-L05	Strain Relief Bushing		2
28	PJN-S03	Shaft		1
29	PG010033	Spring		2
30	HG010911	Spring Pin	4x20	2
31	HA030402	Set Screw	M6x1x6	2
32	PJN-S04	Eccentric Cam		2
33	5FK-C23	Key	5x5x30	1

Electrical Schematic